

Arthur Stanley Pease

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List of Plants on Three Mile Island.

Pteridophyta and Spermatophyta.

BY ARTHUR STANLEY PEASE.

THIS list was prepared as follows: In August, 1903, a manuscript list of plants noted on the island was prepared by A. S. Pease. Specimens were collected of only a few of the more important species. In 1906 specimens were secured by J. H. Emerton (May) and R. A. Ware (July). These specimens of 1906 are deposited in the Club herbarium, as are many others, without memoranda as to date or collector. As such a list as this should be based upon actual evidence of the plants themselves, wherever possible, the manuscript list of 1903 has been cited only when no specimens were to be found in the Club herbarium or that of A. S. Pease. Such reports (indicated in the list by the sign #) and a few other reports unsubstantiated by evidence should be immediately replaced by actual specimens. In May, 1901, H. P. Kelsey introduced upon the island 481 plants of 62 species. Of these a very few were probably already indigenous there. The others have been entered in the following list, but not numbered, as they are, of course, not a part of the *native* flora. Some have probably not persisted. The accompanying list is, without doubt, capable of much improvement and increase. The nomenclature is that of the seventh edition of Gray's Manual.

Abbreviations.

- A. Specimens of anonymous collectors with incomplete data. In the A. M. C. herbarium.
- E. Plants collected by J. H. Emerton. In the A. M. C. herbarium.
- K. Plants introduced by H. P. Kelsey in May, 1901.

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P. Plants collected by A. S. Pease, 24-25 August, 1903. In herbarium of A. S. Pease.

W. Plants collected by R. A. Ware, 9-16 July, 1906. In A. M. C. herbarium.

These plants rest solely upon a MS. list made by A. S. Pease in August, 1903.

I. *Polypodiaceæ*.

1. *Aspidium cristatum* (L.) Sw., var. *Clintonianum* D. C. Eaton. P., no. 2522.
2. *A. marginale* (L.) Sw. W.
3. *A. spinulosum* (O. F. Müller) Sw., var. *intermedium* (Muhl.) D. C., Eaton. W.
4. *A. Thelypteris* (L.) Sw. W.
5. *Asplenium Filix-femina* (L.) Bernh. W.
6. *Dicksonia punctilobula* (Michx.) Gray. W.
7. *Onoclea sensibilis* L. A.
8. *Phegopteris Dryopteris* (L.) Fée. W.
9. *P. polypodioides* Fée. A.
10. *Polypodium vulgare* L. W.
11. *Polystichum acrostichoides* (Michx.) Schott. #
12. *Pteris aquilina* L. W.
13. *Woodsia ilvensis* (L.) R. Bs. Miss Adams, May, 1909.

II. *Osmundaceæ*.

14. *Osmunda cinnamomea* L. W.
15. *O. regalis* L. #

III. *Ophioglossaceæ*.

16. *Botrychium obliquum* Muhl. An anonymous report of August, 1904.

IV. *Lycopodiaceæ*.

17. *Lycopodium clavatum* L. W.
18. *L. complanatum* L., var. *flabelliforme* Fernald. W.
19. *L. obscurum* L. W.

V. *Taxaceæ*.

20. *Taxus canadensis* Marsh. W. Also M. A. Coe, August 6, 1906.

VI. *Pinaceæ*.

21. *Abies balsamea* (L.) Mill. #
 A. Fraseri (Pursh) Poir. K.

- Chamæcyparis thyoides (L.) BSP. K.
 22. Juniperus communis L., var. depressa Pursh. A.
 J. virginiana L. K.
 23. Picea mariana (Mill.) BSP. W. Also K.
 Pinus pungens Lamb. K.
 24. P. resinosa Ait. W.
 25. P. Strobilus L. W. Also K.
 26. Tsuga canadensis (L.) Carr. W. Also K.
 T. caroliniana Engelm. K.

VII. *Najadaceæ*.

27. Potamogeton dimorphus Raf. P., no. 2501.
 28. P. heterophyllus Schreb. #

VIII. *Gramineæ*.

29. Agropyron caninum (L.) Beauv. var. tenerum (Vasey) Pease & Moore, f. citation (Scribn. & Son.) Pease & Moore. See *Rhodora* xii. 72. P., no. 2515. Also A.
 30. Agrostis alba L. #
 31. A. hyemalis (Walt.) BSP. #
 32. Danthonia spicata (L.) Beauv. W.
 33. Muhlenbergia racemosa (Michx.) BSP. P. no. 2526.
 34. Oryzopsis asperifolia Michx. E., 22 May, 1906.
 35. O. pungens (Torr.) Hitchc. E., 21 May, 1906.
 36. Panicum latifolium L. W.
 37. Panicum linearifolium Scribn. W.
 38. Phleum pratense L. W.
 39. Poa compressa L. #

IX. *Cyperaceæ*.

40. Carex brunnescens Poir. P., no. 2516.
 41. C. communis Bailey. E., 17 June, 1907.
 42. C. fœnea Willd., var. perplexa Bailey. P., no. 3143.
 43. C. laxiflora Lam. W. (Possibly one of the varieties of this species.)
 44. C. lupulina Muhl. W. Also P., no. 2520.
 45. C. scoparia Schk. #
 46. C. trisperma Dewey. #
 47. Eleocharis tenuis (Willd.) Schultes. #

X. *Eriocaulaceæ*.

48. Eriocaulon septangulare With. M. A. Coe, 12 August, 1906.

XI. *Juncaceæ*.

49. *Juncus pelocarpus* Meyer. P., no. 3104.
50. *J. tenuis* Willd. W.

XII. *Liliaceæ*.

51. *Clintonia borealis* (Ait.) Raf. A.
 Helonias bullata L. K.
 Lilium Grayi Wats. K.
52. *L. philadelphicum* L. W.
 L. superbum L. K.
53. *Maianthemum canadense* Desf. W.
54. *Medeola virginiana* L. W.
55. *Oakesia sessilifolia* (L.) Wats. #
56. *Polygonatum biflorum* (Walt.) Ell. #
57. *Smilacina racemosa* (L.) Desf. A.

XIII. *Iridaceæ*.

58. *Iris versicolor* L. W.
59. *Sisyrinchium angustifolium* Mill. W.

XIV. *Orchidaceæ*.

60. *Cypripedium acaule* Ait. E., 30 May, 1906.
61. *C. arietinum* R. Br. P., no. 2527. Also E., 23 May, 1906.
62. *Epipactis tessellata* (Lodd.) A. A. Eaton. A.
63. *Habenaria Hookeri* Torr. P., 2517.
64. *Microstylis unifolia* (Michx.) BSP. A.
65. *Spiranthes cernua* (L.) Richard. #
66. *S. gracilis* (Bigel.) Beck. A.

XV. *Salicaceæ*.

67. *Populus grandidentata* Michx. A.
68. *P. tremuloides* Michx. E., 23 May, 1906.
69. *Salix rostrata* Richards. A.; 17 June, 1907.

XVI. *Myricaceæ*.

70. *Myrica asplenifolia* L. W. Also E., 25 May, 1906.
71. *M. carolinensis* Mill. W.
72. *M. Gale* L. W.

XVII. *Betulaceæ*.

73. *Alnus incana* (L.) Moench. A. Also K.
74. *A. viridis* DC. K.

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76. *B. lenta* L. # Also K.
77. *B. lutea* Michx. f. W. Also K.
78. *B. populifolia* Marsh. W. Also E., 28 May, 1906.
Carpinus caroliniana Walt. K.
79. *Ostrya virginica* (Mill.) K. Koch. #

XVIII. *Fagaceæ*.

80. *Fagus grandifolia* Ehrh. #
81. *Quercus alba* L. W. H. Ropes, February, 1910.
82. *Q. rubra* L. W.

XIX. *Urticaceæ*.

83. *Ulmus americana* L. #

XX. *Polygonaceæ*.

84. *Polygonum cilinode* Michx. W. Also K.
85. *Rumex Acetosella* L. #

XXI. *Nymphæaceæ*.

86. *Castalia odorata* (Ait.) Woodville & Wood. #

XXII. *Ranunculaceæ*.

87. *Anemone virginiana* L. E., 1 August, 1909.
Cimicifuga americana Michx. K.
Clematis virginiana L. K.
88. *Coptis trifolia* (L.) Salisb. A.
89. *Ranunculus acris* L. M. A. Coe, July, 1909.
90. *Thalictrum polygamum* Muhl. #
Zanthorhiza apiifolia L'Hér. K.

Magnoliaceæ.

- Liriodendron Tulipifera* L. K.
Magnolia acuminata L. K.
M. Fraseri Walt. K.
M. tripetala L. K.
M. virginiana L. K.

Calycanthaceæ.

- Calycanthus floridus* L. K.

Berberidaceæ.

- Berberis canadensis* Mill. K.

XXIII. *Fumariaceæ*.

91. *Corydalis sempervirens* (L.) Pers. W.

XXIIIA. *Cruciferae*.

92. *Brassica campestris* L. E., 15 June, 1907.

XXIV. *Saxifragaceæ*.

Itea virginica L. K.

93. *Ribes prostratum* L'Hér. A.

XXV. *Hamamelidaceæ*.

94. *Hamamelis virginiana* L. W.

Platanaceæ.

Platanus occidentalis L. K.

XXVI. *Rosaceæ*.

95. *Amelanchier canadensis* (L.) Medic. W. Also E., 21-28 May, 1906.
 96. *A. spicata* (Lam.) K. Koch. W. Also E., 21 May, 1906.
 97. *Fragaria vesca* L., var. *americana* Porter. #
 98. *Potentilla monspeliensis* L. W.
 99. *Prunus pennsylvanica* L. f. E., 25 May, 1906.
 100. *P. serotina* Ehrh. #
 101. *Pyrus melanocarpa* (Michx.) Willd. A.
 102. *Rosa blanda* Ait. M. A. Coe, July, 1909.
 R. setigera Michx. K.
 103. *Rubus allegheniensis* Porter. A.
 104. *R. hispidus* L. M. A. Coe, July, 1909.
 105. *R. idæus* L., var. *aculeatissimus* [C. A. Mey.] Regel & Tiling. A.
 R. laciniatus Willd. K.
 106. *R. odoratus* L. A.
 107. *Spiræa latifolia* Borkh. W.
 108. *S. tomentosa* L. #

XXVII. *Leguminosæ*.

109. *Apios tuberosa* Moench. #
 Robinia hispida L. K.
 110. *Trifolium agrarium* L. W.
 111. *T. pratense* L. A.
 112. *T. repens* L. W.

XXVIII. *Anacardiaceæ*.

- 113. *Rhus Toxicodendron* L. W.
- 114. *R. typhina* L. W.

XXIX. *Aquifoliaceæ*.

- Ilex glabra* (L.) Gray. K.
- I. monticola* Gray. K.
- 115. *I. verticillata* (L.) Gray. Anonymously reported in July, 1906.
- 116. *Nemopanthus mucronata* (L.) Trel. E., 30 May, 1906.

XXX. *Aceraceæ*.

- 117. *Acer pennsylvanicum* L. A., 21 May, 1906.
- 118. *A. rubrum* L. A.
- 119. *A. saccharum* Marsh. #

XXXI. *Balsaminaceæ*.

- 120. *Impatiens biflora* Walt.

XXXII. *Vitaceæ*.

- 121. *Psedera vitacea* (Knerr) Greene (?) #
P. sp. K.
- 122. *Vitis æstivalis* Michx. A.

XXXIII. *Tiliaceæ*.

- 123. *Tilia americana* L. #

XXXIV. *Hypericaceæ*.

- Hypericum aureum* Bart. K.
- H. densiflorum* Pursh. K.
- 124. *H. perforatum* L. M. A. Coe.
- H. prolificum* L. K.
- 125. *H. virginicum* L. A.

XXXV. *Violaceæ*.

- 126. *Viola blanda* Willd. #
- 127. *V. pallens* (Banks) Brainerd. #
- 128. *V. renifolia* Gray. A.
- 129. *V. septentrionalis* Greene. (?) A.

XXXVI. *Onagraceæ*.

- 130. *Epilobium angustifolium* L. A.
- 131. *E. densum* Raf. #
- 132. *Oenothera biennis* L. #

XXXVII. *Araliaceæ*.

133. *Aralia hispida* Vent. #
 134. *A. nudicaulis* L. A.
 135. *A. racemosa* L. A.

XXXVIII. *Umbelliferæ*.

136. *Sium cicutæfolium* Schrank. P., no. 2521.

XXXIX. *Cornaceæ*.

- Cornus alternifolia* L. f. K.
 137. *C. canadensis* L. W.
 138. *C. circinata* L'Hér. A.
 C. stolonifera Michx. K.
 139. *Nyssa sylvatica* Marsh. #

XL. *Ericaceæ*.

140. *Arctostaphylos Uva-ursi* (L.) Spreng. A.
 141. *Chamædaphne calyculata* (L.) Moench. E., May, 1906.
 142. *Chimaphila umbellata* (L.) Nutt. A.
 Clethra acuminata Michx. K.
 C. alnifolia L. K.
 143. *Gaultheria procumbens* L. W.
 144. *Gaylussacia baccata* (Wang.) K. Koch. A.
 145. *G. baccata* (Warg.) K. Koch, f. *glaucocarpa* (Robinson) Mac-
 kenzie. #
 146. *Kalmia angustifolia* L. W.
 K. latifolia L. K.
 Leiophyllum buxifolium (Berg.) Ell. K.
 Leucothoë Catesbæi (Walt.) Gray. K.
 147. *Lyonia ligustrina* (L.) DC. #
 148. *Monotropa Hypopitys* L. #
 149. *M. uniflora* L. W.
 Oxydendrum arboreum (L.) DC. K.
 150. *Pyrola chlorantha* Sw. W.
 151. *P. elliptica* Nutt. W.
 152. *P. secunda* L. W.
 Rhododendron arborescens (Pursh.) Torr. K.
 R. calendulaceum (Wilcox) Torr. K.
 153. *R. canadense* (L.) BSP. W. E., 30 May, 1906. Also K.
 R. catawbiense Michx. K.
 R. maximum L. K.

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R. Vaseyi Gray. K.

R. viscosum (L.) Torr. K.

154. Vaccinium corymbosum L. #

155. V. pennsylvanicum Lam. A.

156. V. vacillans Kalm. #

Diapensiaceæ.

Galax aphylla L. K.

Shortia galacifolia T. & G. K.

XLI. *Primulaceæ.*

157. Lysimachia terrestris (L.) BSP. #

158. Trientalis americana (Pers.) Pursh. A., 23 May, 1906.

Styracaceæ.

Halesia carolina L. K.

XLII. *Oleaceæ.*

159. Fraxinus americana L. #

XLIII. *Gentianaceæ.*

160. Gentiana Andrewsii Griseb. Anonymously reported, July, 1906.

161. Nymphoides lacunosum (Vent.) Fernald. #

XLIV. *Apocynaceæ.*

162. Apocynum androsæmifolium L. W.

XLV. *Asclepiadaceæ.*

163. Asclepias phytolaccoides Pursh. #

XLVI. *Labiataæ.*

164. Lycopus uniflorus Michx. #

165. Mentha arvensis L., var. canadensis (L.) Briquet. #

166. Prunella vulgaris L. #

167. Scutellaria galericulata L. Anonymously reported, July, 1906.

XLVII. *Scrophulariaceæ.*

168. Gratiola aurea Muhl. #

169. Melampyrum lineare Lam. W.

170. Verbascum Thapsus L. #

XLVIII. *Orobanchaceæ*.

171. *Epifagus virginiana* (L.) Bart. #
 172. *Orobanche uniflora* L. 17 July, 1907.

Bignoniaceæ.

Catalpa bignonioides Walt. K.

XLIX. *Plantaginaceæ*.

173. *Plantago major* L. #

L. *Rubiaceæ*.

174. *Cephalanthus occidentalis* L. W. Also K.
 175. *Galium tinctorium* L. W.
 176. *G. triflorum* Michx. #
 177. *Mitchella repens* L. W.

LI. *Caprifoliaceæ*.

178. *Diervilla Lonicera* Mill. A.
 D. sessilifolia Buckley. K.
 179. *Lonicera canadensis* Marsh. A.
 L. japonica Thunb., var. *Halliana* Nicholson. K.
 180. *Viburnum acerifolium* L. W.
 181. *V. alnifolium* Marsh. A., 20 May, 1906.
 182. *V. cassinoides* L. A.
 183. *V. dentatum* L. W.

LII. *Lobeliaceæ*.

184. *Lobelia Dortmanna* L. M. A. Coe, 12 August, 1906.

LIII. *Compositæ*.

186. *Achillea Millefolium* L. A.
 187. *Anaphalis margaritacea* B. & H. M. A. Coe, August, 1906.
 188. *Antennaria canadensis* Greene. W.
 189. *A. fallax* Greene. P., no. 2502.
 190. *A. neglecta* Greene. #
 191. *A. neodioica* Greene. #
 192. *A. plantaginifolia* (L.) Richards. E., 1 June, 1909.
 193. *Aster acuminatus* Michx. #
 194. *A. divaricatus* L. #
 195. *A. dumosus* L. #
 196. *A. macrophyllus* L., (or one of the varieties of this species). P.
 no. 2514. Also E., 1 June, 1909.



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- 197. *A. novi-belgii* L. #
- 198. *A. puniceus* L. #
- 199. *A. umbellatus* Mill. #
- 200. *A. undulatus* L. P., no. 2518.
- 201. *Bidens connata* Muhl. (?) #
- 202. *Erigeron ramosus* (Walt.) BSP. #
- 203. *Eupatorium perfoliatum* L. #
- 204. *E. purpureum* L. #
- 205. *Gnaphalium decurrens* Ives. #
- 206. *Hieracium paniculatum* L. M. A. Coe, August, 1906.
- 207. *H. scabrum* Michx. M. A. Coe, August, 1906.
- 208. *Lactuca canadensis* L. #
- 209. *Prenanthes trifoliolata* (Cass.) Fernald. M. A. Coe, August, 1906.
- 210. *Solidago arguta* Ait. P., no. 2523. #
- 211. *S. bicolor* L. A.
- 212. *S. cæsia* L. #
- 213. *S. canadensis* L. A.
- 214. *S. graminifolia* (L.) Salisb. #
- 215. *S. juncea* Ait. A.
- 216. *S. nemoralis* Ait. A.
- 217. *S. rugosa* Mill. #
- 218. *Taraxacum officinale* Weber. #